

10 JUN 1913

W1302-0075

Miscar. v. C. T. Channing A. G. No 247/48/51/61
Profile

Patagonia

Grasson

Quaseldorf

Bmn. No 103?

247

D

150

248

Essen

Bmn. No 154?

251

as Luneburg

Bmn 199

261

as Freiberg

Bmn No 384

REGISTER OF SHIPPED
PRINTED
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Lloyd's Register
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W1302-0075

S.S. 243/44 - 247/48. 251, 261

Profile.

Class 100 A1.

Rule Length 451.625 Breadth 52'0" Depth 23'0" to Upperdeck 23'0" ditto Poopdeck 33'0" 33'0"

Breadth 52'00

Breadth to Length 7.923

Depth 23'0" 23'0"

Depth to Upperdeck 15.234

Length 451.625

Length to Poopdeck 11.997

391'0" Longitudinal N:

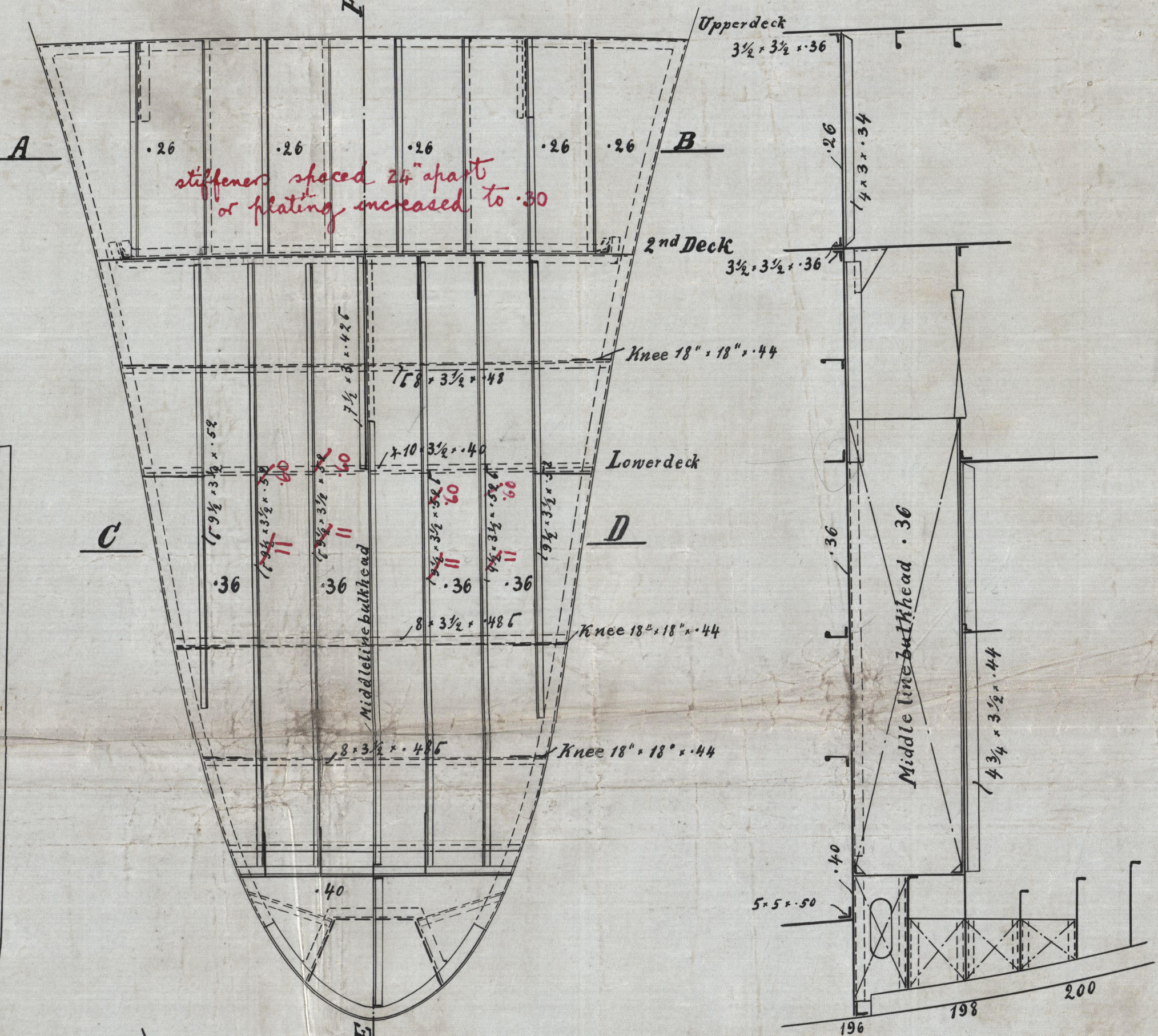
Scale 1/4" = 1 Foot.

Sheer
Sternpost 3' 8 1/2"
1/2 Length from Sternpost 1' 5 1/2"
1/4 Length from Stem 0' 3 3/4"
Stem 8' 8 3/4"

Collision Bulkhead.

Section A-B.

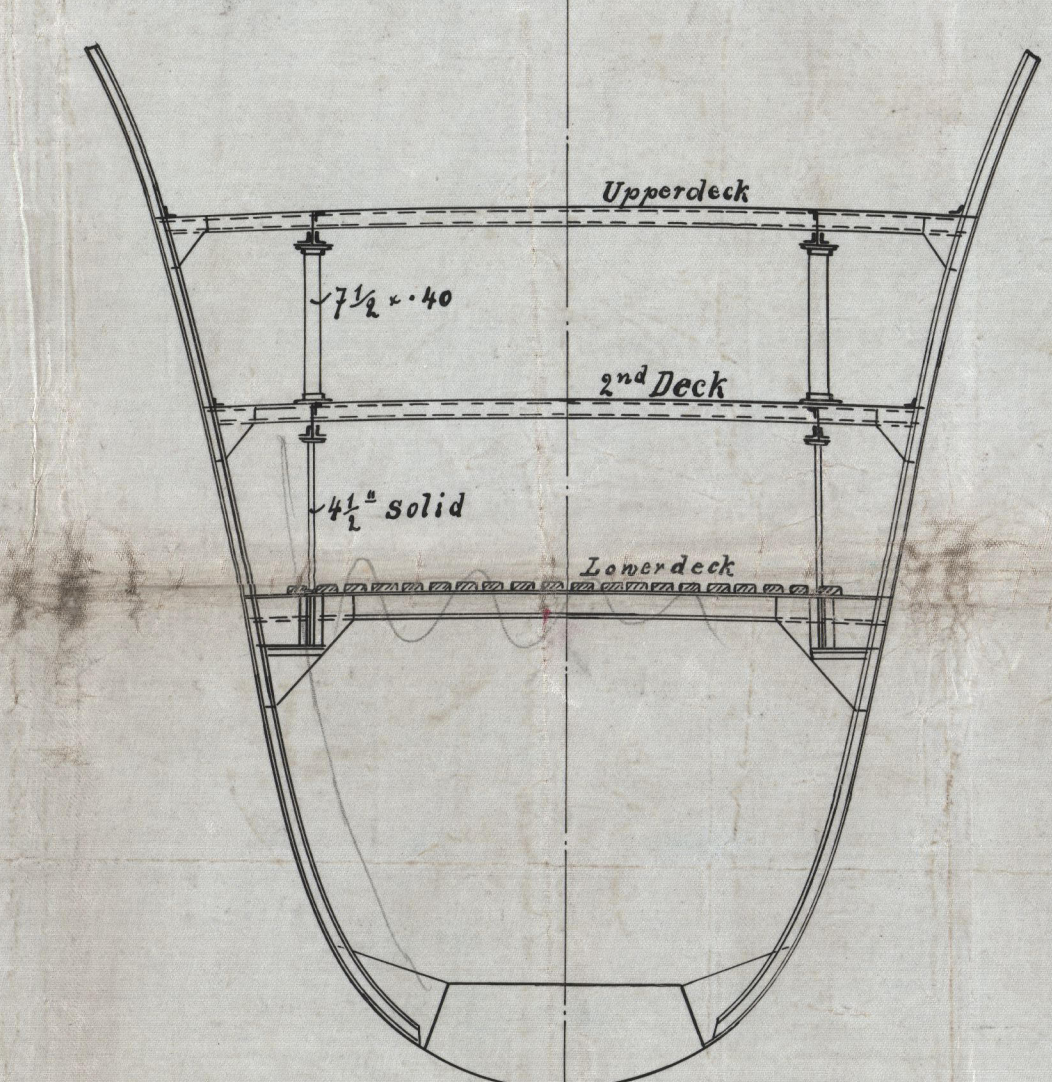
Section E-F.



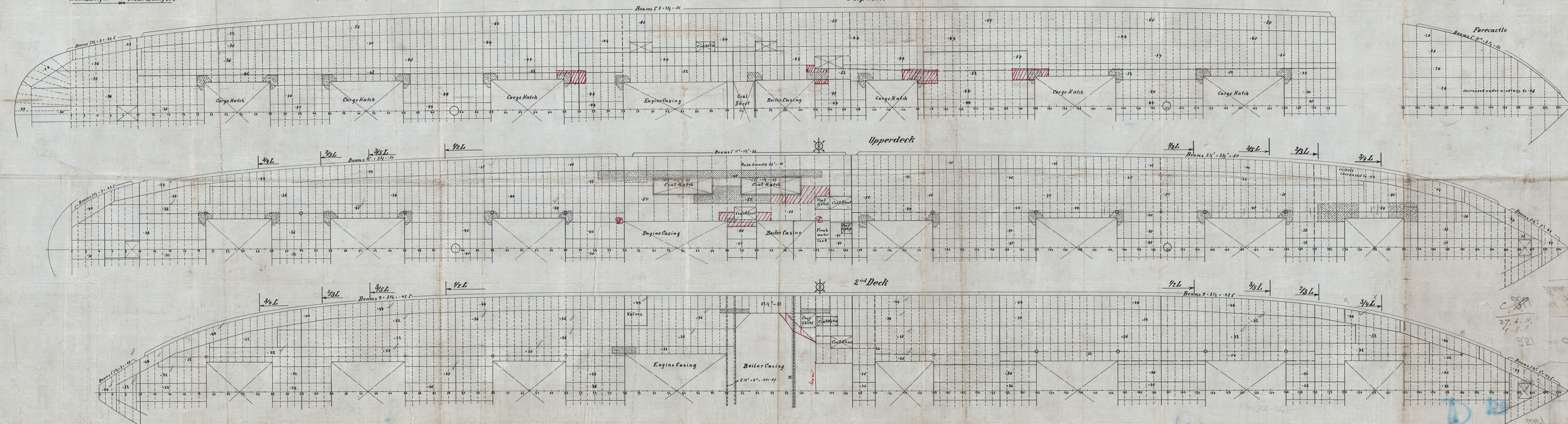
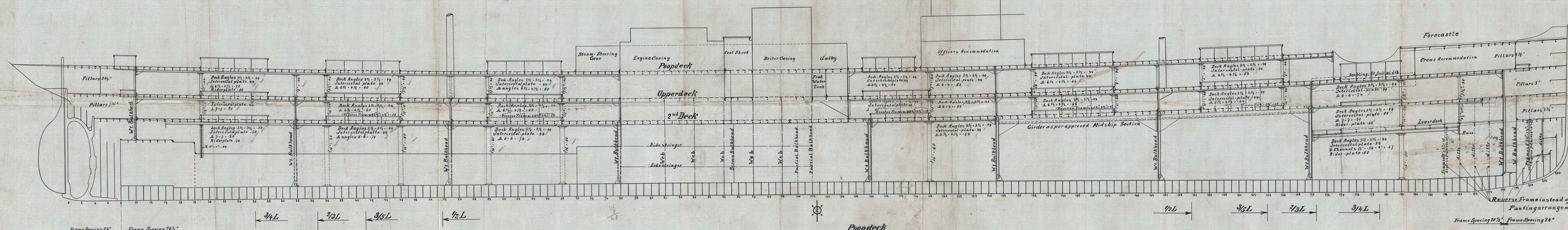
Section C-D.

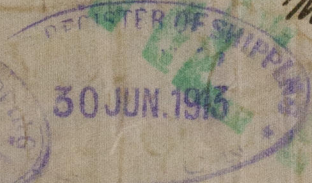
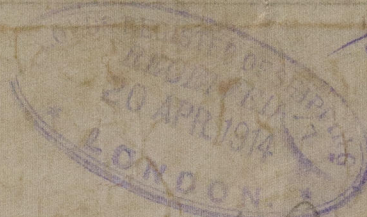
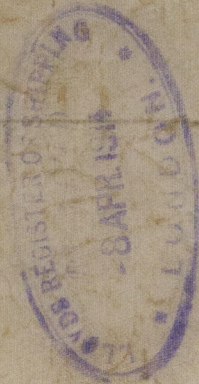
Midship Bulkhead

Section through frame 190.



JOHN C. TECKENBORG A.C.
SCHIFFWERFT und MASCHINENFABRIK
BREMSENGEWERKE
27. 6. 11.
5. 11. 11.





Messrs. V. G. Tecklenburg & Co. No. 247/48/59/61
Midship Edition

Patagonia
Grandon

DB 150

- 247 ss. "Dusseldorf"
Bmn. No. 103.
- 248 ss. "Essen"
Bmn. No. 154.
- 259 ss. "Lüneburg"
Bmn. No. 189.
- 261 ss. "Freiburg"
384.

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1st vol. 28.
2nd vol. 28.

Book of

Grandon

WB02-00762020



Lloyd's Register
Foundation

(251)
(24)

27.6.11
25.11
9.11.11
19.12.11
3.10.12

S.S. 243/44 - 247/48. +251. +261

Midship Section.

Scale $\frac{1}{2}$ " = 1 Foot.
Class * 100 A1.

Rule Length 451.625 Breadth 57' 0" Depth m^{ld} to Upperdeck 29' 7 $\frac{3}{4}$ " ditto to Poopdeck 37' 7 $\frac{3}{4}$ "

Breadth 57, 0
Depth 29, 646
Length 451, 625
39149 Longitudinal N^o

Breadth to Length 7.923
Depths " " to Upperd. 16.234
" " " Poopd. 11.992
Depth(d) for frames 17.646, where Lowerdeck 9.646

Equipment
Under Deck 39149
Poop and Forecastle 2364
Deckhouses 362
Charthouse 115
Numeral 42.180

2 Down Anchors, 250 lb each, 200 fathoms, 2 1/2" dia. 130 " 3/4" Steel Torsion
1 Stream Anchor, 100 lb, 25-2-14 130 " 3/4" Steel Torsion
1 Hedge Anchor " " 11-1-0 40, 100 " 8 Hemp Hamper.
300 Fathoms, 2 1/2" dia. 2 3/4" diam. to be supplied by the owners.

Poopdeck.

N

Upperdeck

2nd Deck.

H

G

F

E

Long Poop 38' 7 $\frac{1}{2}$ " Forecastle 44' 6"
Beam Spacing 26 1/2" 53"
Pillars two rows 2 7/8" diam
Beams 8' 3 3/4" x 50
Knees 25' x 46
Stringer Plate 61' 60 to 37' x 44
Deck Plating 37' x 36
Stringer Angle 5' 6" x 64 to 38' x 34
Riv. 38' x 34 x 36
Butts quadruple rivet
Deck " Butts double for 7/8 L
Side Plating single at ends

Upperdeck
Length of beam 52' 0" 26 L 38' 10"
Beam Spacing 26 inches 26 inches
Pillars two rows 8' 3 3/4" x 50
Beams 25' x 46
Knees ditto
Stringer Plate 44' x 36 in Well 40
Deck Plating 38' x 34 x 36 in Well 5' x 60
Stringer Angle 5' 6" x 64 to 38' x 34
Riveting: Butts double for full length.
Deckplating Rivet: Butts double for 7/8 L, single at ends.

Rule Built angles in inches.	Equivalent German Standard Section in inches.	Equivalent German Standard Section in Millimeter.
11 x 3 1/2 x 56	10 1/2 x 3 1/4 x 67.5	266.5 x 86.5 x 142.5
10 x 3 1/2 x 54	9 1/2 x 3 1/4 x 59	244.5 x 86.5 x 142.5
9 x 3 1/2 x 48	8 1/2 x 3 1/4 x 52	220 x 86.5 x 142.5
8 1/2 x 3 x 46	8 x 3 1/4 x 53	206.5 x 86.5 x 142.5
8 x 3 1/2 x 48	8 x 3 1/4 x 48	200 x 86.5 x 142.5
7 1/2 x 3 1/2 x 44	7 1/2 x 3 1/4 x 48	190 x 86.5 x 142.5

Hatches on Poopdeck

Length	Sides	Ends
19.88	44' x 44	44
22.08	44' x 44	44
22.08	44' x 44	44
15.96	44' x 44	44
24.3	44' x 44	44
24.3	44' x 44	44

Deck angles of Side Thickness.

Upperdeck Hatches.

Length	Sides	Ends
19.88	20' x 44	44
22.08	20' x 44	44
22.08	20' x 44	44
15.96	20' x 44	44
24.3	20' x 44	44
24.3	20' x 44	44

Deck angles of Side Thickness.

2nd Hatches

Length	Sides	Ends
19.88	21' x 44	44
22.08	21' x 44	44
22.08	21' x 44	44
17.44	21' x 44	44
24.3	42' x 44	44
24.3	42' x 44	44

Deck angles of Side Thickness.

Frames where no Lowerdeck 7' 1/2" x 44, Frames where Lowerdeck fitted 6' 3 1/2" x 44
Frames in Engine and Boiler space 6' 3 1/2" x 44
Frames above second Deck 6' 3 1/2" x 44
Frame spacing 26" in Peaks 44
Webframes 22' x 44
Floors in Peaks 44, Transomplate 51' x 50
Sternframe and Rudder as per special plan to be submitted later.
Poop Bulkhead, framing angle 10' 3 1/2" x 44, Plating 40
Stiffeners 1' 3 1/2" x 52 x 64
Tunnel Plating 36' Top Plating under Hatches 46
Stiffeners angles 3 1/2" x 44

Cellular Double Bottom

Plating	7/8 L	Ends	Engine	Boiler	Angles	7/8 L	Ends	Boiler
Centre girder	45' x 50	44	50	52	Centre girder Top	3 1/2" x 52	48	52
Side Girders	45' x 50	56	44	50	" " Bottom	4 1/2" x 48 x 60	54	60
Floors	45' x 50	56	44	50	" " Vertical	6' x 6' x 50	38' x 42	64' x 54
Brackets at Margin	45' x 50	56	44	50	Side girders Top	3 1/2" x 52 x 44	38' x 42	54
Margin Plate	45' x 50	56	44	50	" " Bottom	3 1/2" x 52 x 44	42	44
Gussets in lower deck	45' x 50	56	44	50	" " Vertical	6' x 6' x 50	38' x 42	64' x 54
Gussets in lower deck	45' x 50	56	44	50	Margin Plate	6' x 6' x 50	38' x 42	64' x 54
Gussets in lower deck	45' x 50	56	44	50	" " Bottom angle	4 1/2" x 50	50	52
Gussets in lower deck	45' x 50	56	44	50	Frames	3 1/2" x 52 x 44	42	44
Gussets in lower deck	45' x 50	56	44	50	Reverse frames	3 1/2" x 52 x 44	42	44

Riveting: Butts of Centre girder, Margin Plate & Middleline strake capped and treble riveted, full length. Butts of tanktop double riveted for half length, treble in Engine and boiler space, single at ends. Edges of middleline strake double riv. full length. Remainder of edges double in Engine & Boiler space, single in holds.

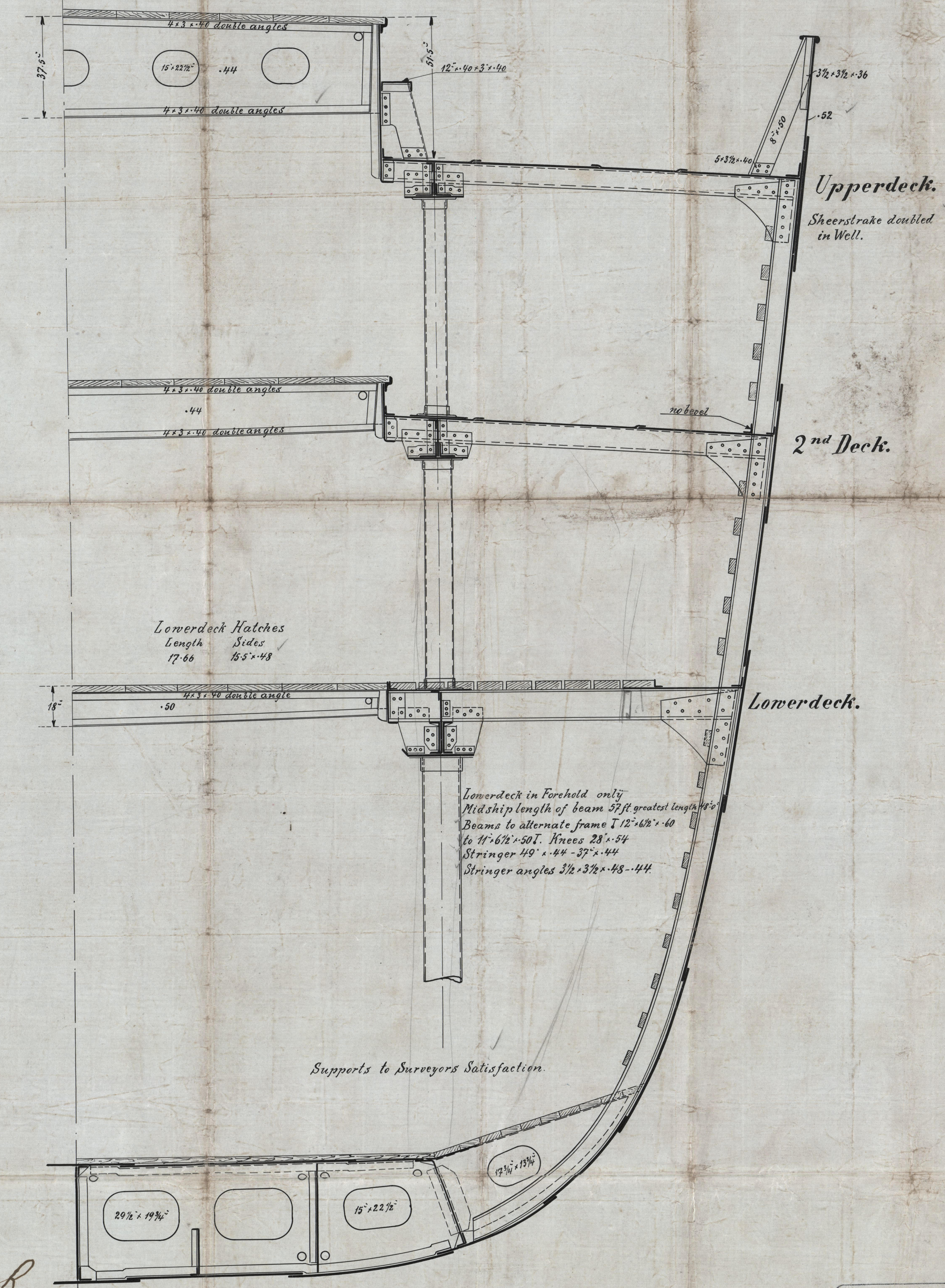
2nd Deck
Length of beam 57' 0" 36 L 38' 0" 26 L 28' 6"
Beam Spacing 26 1/2" inches 26 1/2" inches 24 inches
Pillars two rows 8' 3 3/4" x 50
Beams 25' x 46
Knees ditto
Stringer Beams ditto
Stringer Plate 49' x 44 to 37' x 44
Deck Plating 36 to 32
Stringer Riveting: Butts lapped and treble riveted full length.
Deckpl. " " double " for 7/8 L; single at ends

Webplates in Engine & Boiler Space 22' x 44
Knees to midframe 22' x 44, flanged on inner edges
Intermittent Side Stringer 22' x 38
Single angle on Side Stringer 3 1/2" x 50
" " Web Frames 7' x 32 x 66
Single Frames connecting Stringer and Webframes to outside plating 3 1/2" x 52 x 44

Riveting of butts of outside plating
Keelplate double straps treble riveted, ends quadruple lapped.
Sheerstrake of Long Poop where above 40 double straps treble riv.
Shellplating butts to upper turn of bilge lapped quadruple riv.
for 7/8 L, quadruple, ends lapped, treble riveted.
Forecastle double riveted hulls.
Riveting of Landing edges.
All Landing edges of shellplating double riveted throughout. Forecastle single riveted.
Landing edges 6" where plating is 46 or above.
5 1/2" " " under 46.
Rivet spacing in frames 6 diam.

Rise of Tanktop 3"

6' 6" angles from Collision bulkhead to after end of Engine room.

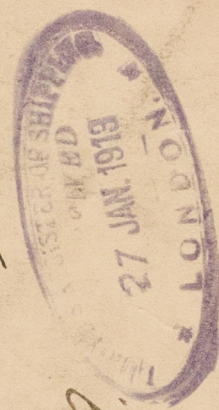


JOHN C. TECKLEBORG A-C
SHIPBUILDING AND MACHINERY
BREMEN-GERMANY
1911

Memo. Joh. G. Tecklenborg A.G. No 261 "Freiburg."

Main boiler Nos 456, 57, 58, 59.

Boiler letter E 25.1.13.



247. "Luseldorf" *
Bmn. 103.

how named Patagonia
Disclass 150

248. "Essen"
Bmn. 154.

251. "Lüneburg"
Bmn 199

261. "Freiburg"
Bmn. 384.

Messrs. Joh. G. Tucklenborg A.G. No 251 & 261.

Main boilers

Bunn letter E 22.10.12.

251 ss "Lüneburg"

Bunn No 199

261 ss "Freiburg"

Bunn No 384.



24 NOV 1911

W1302-0074



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Steel-Boiler for ship 251. & 261.

to be classed 100 Ansied.

36:397-98-99.

No 456-57-58-59

1:10.

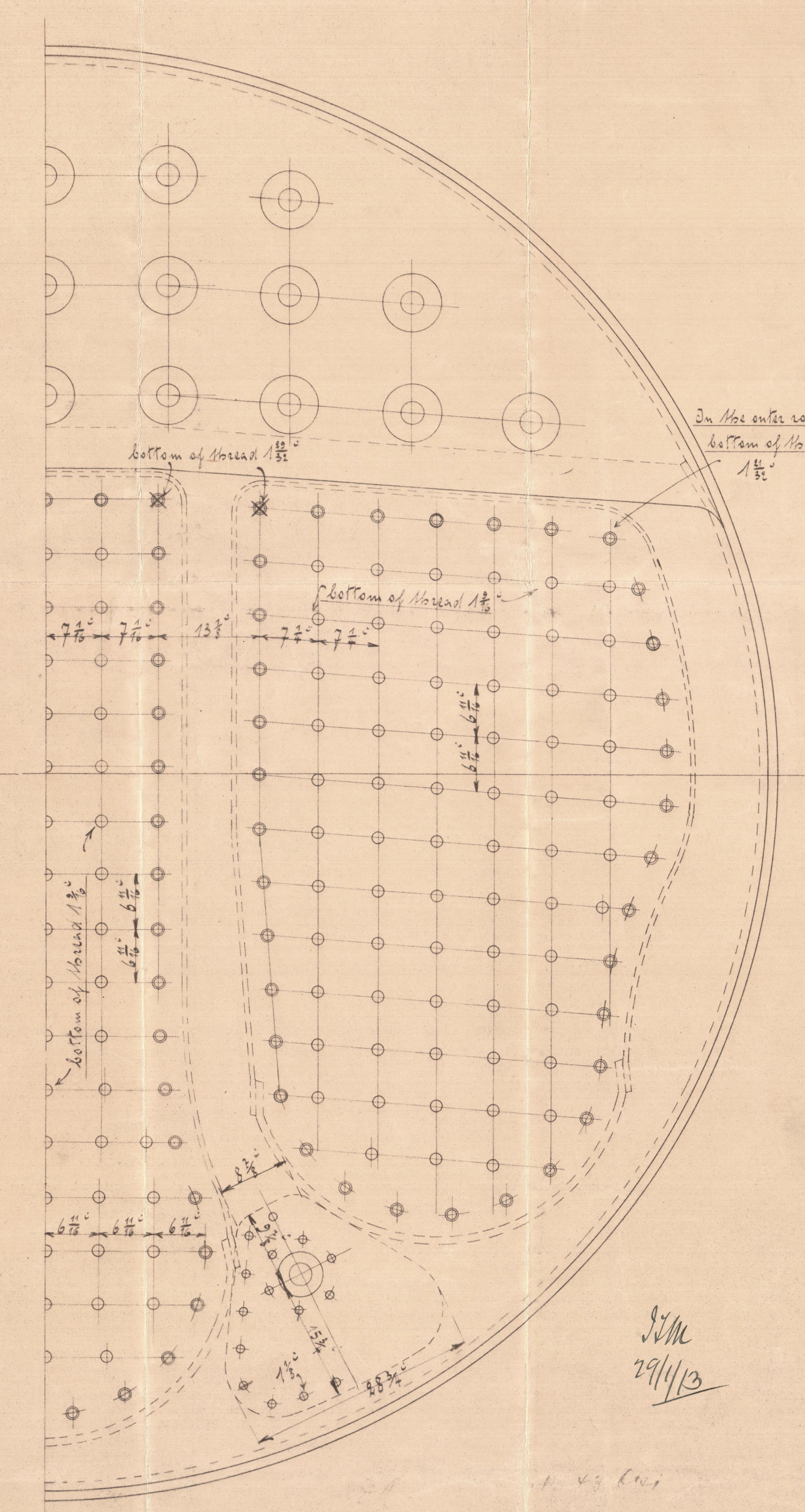
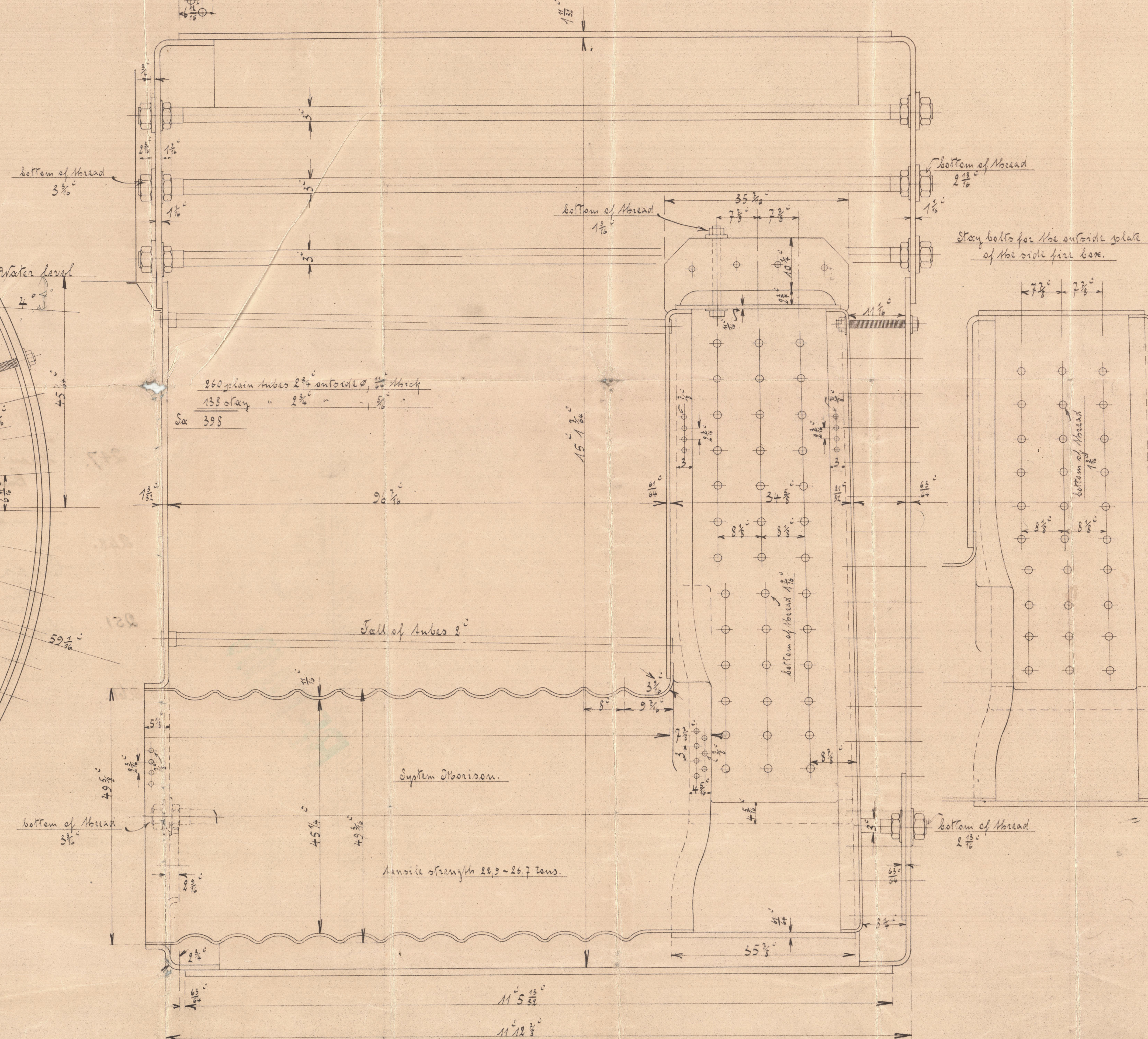
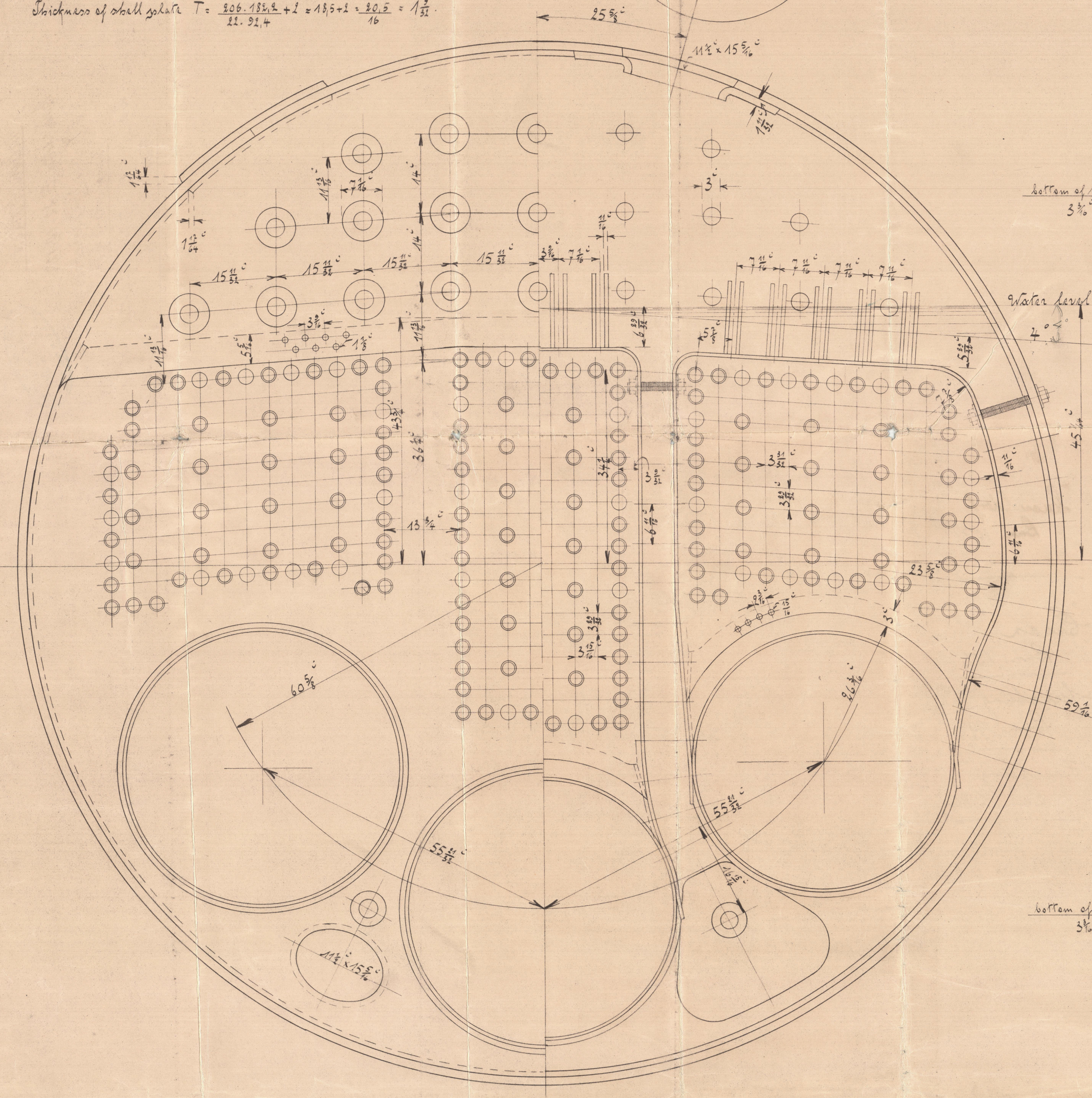
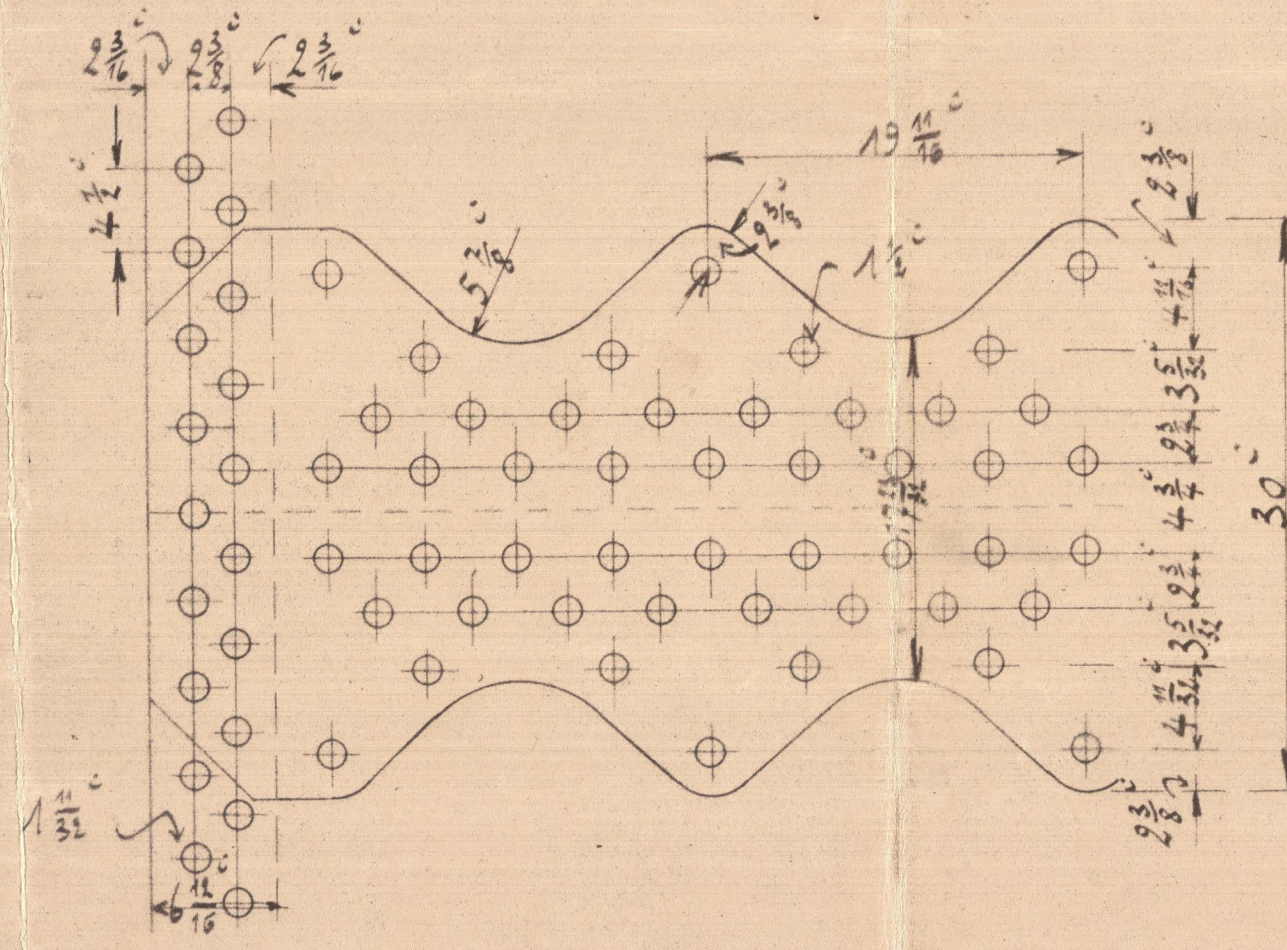
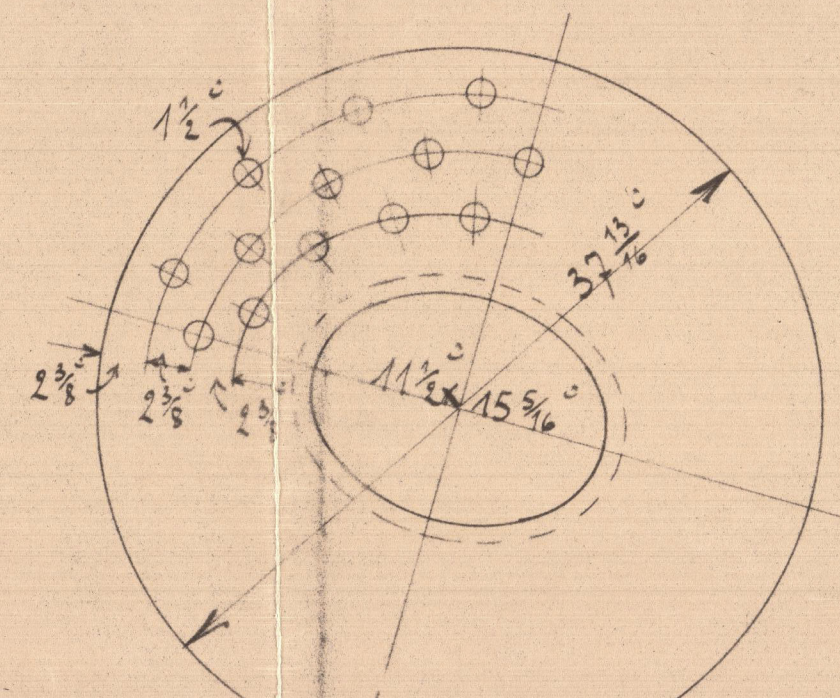
20/1/11

30/1/13

Heating surface 2798 square feet
 grate 645
 working pressure 200 lbs per square inch
 Hydraul - 412

Material: Siemens Martin-Steel.
 Shell plating and girders tensile strength of 27,9-32,7 tons
 Elongation 22,5%
 All the other material 22,9-26,0 tons per sq. inch tensile strength.
 Elongation 26%
 All stay bolts with nuts and washers, material Siemens Martin-Steel
 tensile strength 25-28,6 tons per sq. inch.

Thickness of shell plate $T = \frac{200 \cdot 18 \cdot 2 + 1}{22 \cdot 92,4} = \frac{3600 + 1}{2052,8} = \frac{3601}{2052,8} = 1,75$



J.M.
 29/1/13

No. 41772.
 JON. C. TEKKENBORG A.-G.
 SCHIFFSWERFT und MASCHINENFABRIK
 BREMENHAFEN-GEESTEMÜNDE.
 24/11/11.